

## ADAPTIVE ACTIVE CACHE REFRESH

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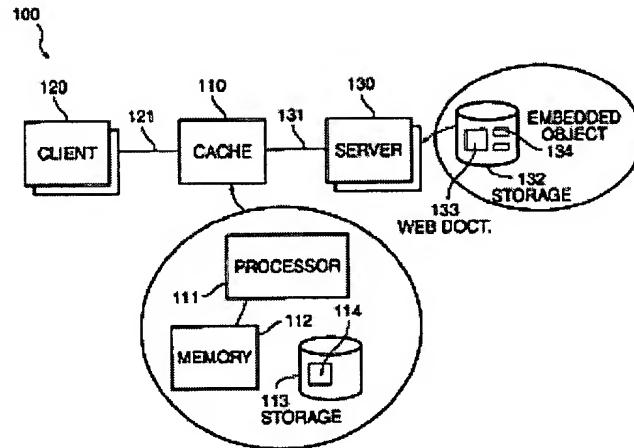
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 XP002086721  
 XP004037987  
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### Abstract of WO9922315

The invention provides a system and system for automatically refreshing documents in a cache, so that each particular document is refreshed no more often and no less often than needed. For each document, the cache estimates a probability distribution of times for client requests for that document and a probability distribution of times for server changes to that document. Times for refresh are selected for each particular document in response to both the estimated probability distribution of times for client requests and the estimated probability distribution of times for server changes. The invention also provides a system and system for objectively estimating the value the cache is providing for the system including the cache. The cache estimates for each document a probability distribution of times for client requests for that document, and determines a cumulative probability distribution which reflects the estimated marginal hit rate at the storage limit of the cache and the marginal advantage of adding storage to the cache.



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